

# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० ३०] नई दिल्ली, शनिवार, जुलाई २५, १९८७ (श्रावण ३, १९०९)

No. 30] NEW DELHI, SATURDAY, JULY 25, 1987 (SRAVANA 3, 1909)

इस भाग में भिन्न पृष्ठ संख्या वाली है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड २  
[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी को गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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THE PATENTS AND DESIGNS

Calcutta, the 25th July 1987

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**APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-700020**

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 18th June, 1987

- 474/Cal/87. Kia Motors Corporation. Power Transfer Apparatus.
- 475/Cal/87. Kia Motors Corporation. Power take-off mechanism.
- 476/Cal/87. Carrier Corporation. Compressor lubrication system.
- 477/Cal/87. American Cyanamid Company. Method for the preparation of anilino-fumarate.
- 478/Cal/87. Karel Havel. Switch position detector and indicator with multicolor emitter.

The 19th June, 1987

- 479/Cal/87. Kabel-Und Metallwerke Gutehoffnungshutte AG. Process for the manufacture of a continuous casting ingot mould from a copper alloy.
- 480/Cal/87. B. V. Optische Industrie "De Oude Delft". Method and device for slit radiography.
- 481/Cal/87. Azionaria Costruzionali Macchine Automatiche A.C.M.A. S.p.A. Heat sealable film strip for the packaging of products.
- 482/Cal/87. Azionaria Costruzioni Macchine Automatiche A.C.M.A. S.p.A. A method of wrapping products in packaging made from sheet material, a device for working the method, and packaging thus obtained.
- 483/Cal/87. Asta-werke AG. A process for the preparation of the stable formulations from oxazaphosphorins.

**ALTERATION OF DATE**

160645.  
(76/Bom/86) Ante dated to 14th March, 1985.
160647.  
(262/Bom/86) Ante dated to 13th February, 1984.
160648.  
(357/Mas/84) Ante dated to 30th March, 1982.
160649.  
(369/Mas/84) Ante dated to 20th July, 1982.
160655.  
(608/Mas/84) Ante dated to 13th November, 1981.
160657.  
(791/Mas/84) Ante dated to 20th April, 1982.
160658.  
(82/Del/83) Ante dated to 30th May, 1979.
160669.  
(587/Del/83) Ante dated to 25th January, 1980.

**COMPLETE SPECIFICATION ACCEPTED**

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CLASS : 150 E, G 160638

Int. Cl. : F 161 19/00, 21/00.

**TUBE JOINT COMPRISING MEANS FOR ANCHORING A SLEEVE AT ITS END.**

Applicant : HYDEXCO SOCIETE ANONYME, OF 16 RUE LOUIS RAMEAU-95670 BEZONS, FRANCE, A FRENCH COMPANY.

Inventors : FOUCault JOEL BONNARGENT ALAIN. Application No. 269/Mas/84 filed on 17th April 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

**12 Claims**

A method of making a tube joint comprising anchoring a sleeve at the end of the tube characterized by positioning a sleeve (1) having channel (6) on a tube (18) with the help of a temporarily fitted retaining socket (19) and pushing a smooth mandrel (20) having at least one shoulder (24) into the interior of the tube (18) so as to apply pressure to the end portion (27) of the tube (18) by shoulder (24) of the mandrel (20) thus deforming the tube (18) in the channel (6) of sleeve (1) substantially in the same shape as channel (6) on completion of the forward stroke of the mandrel (20), resulting the sleeve (1) being firmly set on the tube (18) when the mandrel (20) and the socket (19) are withdrawn.

Complete specification 12 pages. Drg. 3 sheets

CLASS : 35 E 160639

Int. Cl. : B 28 c 7/04.

**AN INSTALLATION FOR THE PRODUCTION OF CEMENT CLINKER.**

Applicant : COMPAGNIE ELECTRO-MECANIQUE OF 40 RUE JEAN-JAURES 93176, BANG BAGNOLET CEDEX, FRANCE, OF FRENCH NATIONALITY, AND FIVES-CAIL BABCOCK OF 7 RUE MONTALIVET, 75383 PARIS CEDEX 08, FRANCE, OF FRENCH NATIONALITY.

Inventors : MONSIEUR CHRISTIAN CHENU, MONSIEUR PHILIPPE BENOIT MONSIEUR ALAIN CHIELENS.

Application No. 270/Mas/84 filed on 17th April 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 7 Claims

An installation for the production of cement clinker comprising a precalcination chamber (14) provided with a fuel injection device (10), a rotary kiln (6) having a burner (12) at the end of the clinker outlet, a clinker cooler (7) characterised by means (20) for controlling the flow rate of the fuel injected into said chamber, a regulator (21) for controlling the flow rate of the fuel supplied to the kiln burner as a function of the flow rate of the fuel injected into the precalcination chamber and a computer (15) the output of which being connected to the said regulator to correct the set value of the flow rate of fuel supplied, the inputs of the computer being connected to various sensors to receive information therefrom, the said sensors sense the nitrogen oxide content of the kiln exhaust gases the temperature of the kiln exhaust gases, the torque of the kiln driving motor, the potassium oxide content of the precalcined materials on entering the rotary kiln and the free lime content of the clinker respectively.

Compl. specn. 11 pages.

Drg. 1 sheet

Ind. Cl. : 174F[L III (4)]

160640

Int. Cl. : F 16f—9/00.

**AN IMPROVED PRESSURIZED GAS CHARGING APPARATUS FOR SHOCK ABSORBERS.**

Applicants : MAREMONT CORPORATION, 200 EAST RANDOLPH DRIVE, CHICAGO, ILLINOIS-60601, U.S.A.

Inventors : JOSEPH CUBALCHINI.

Application No. 159/Bom/1984 filed on May 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 4 Claims

An improved apparatus for introducing a gas under pressure to a pressurized, piston rod receiving device the device having a working chamber, a cylindrical piston rod extending out from the working chamber, and a piston rod seal preventing the pressurizing gas within the chamber from leaving the rod end portion of the working chamber as the piston rod moves operably with respect to said seal and said working chamber said piston rod seal having an upper lipportion and a lower lipportion, the apparatus comprising

a gas charging head means including a first cavity for receiving the top of the piston rod, said head means receiving a force at its top surface to apply a corresponding force to the piston rod moving the piston rod into the working chamber;

gas inlet means including an opening formed in said head means and communicating with said first cavity said gas inlet means for receiving gas under pressure into said first cavity;

seal penetrating means depending from said head means and including a second cavity of cylindrical shape of a diameter slightly larger than the diameter of the piston rod for receiving the piston rod and forming annular gas path between the piston rod and the inner surface of said penetrating means, said annular gas path communicating with said first cavity;

a tip structure formed at the end of said penetrating means for deflecting the piston rod seal as the seal penetrating means is moved relative to the piston rod seal, said tip structure forcing the seal radially sway from the piston rod permitting movement of the penetrating means between the seal and the piston rod, the seal slidably sealingly engaging the external surface of said penetrating means.

Compl. specn. 7 pages.

Drg. 1 sheet

Ind. Cl. : 174F

160641

Int. Cl. : F 16f—9/00, 5/00, 7/00.

**AN IMPROVED COMPRESSION HEAD ASSEMBLY FOR SHOCK ABSORBING DEVICES.**

Name of Applicants : MAREMONT CORPORATION, 200 EAST RANDOLPH DRIVE, CHICAGO, ILLINOIS 60601, UNITED STATES OF AMERICA.

Inventors : (1) ZUMWINKEL DEBORAH A, (2) ANDERSON GERALD DUANE AND (3) UNNIKRISHNAN KIZHAKKE VARIETH.

Application No. 161/Bom/1984 filed on 1st June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

## 11 Claims

An improved compression head assembly, for shock absorbing device including a fluid filled cylinder having an axis of symmetry and first and second ends, a piston rod extending axially away from and outwardly of said first end of said cylinder, a piston assembly having an axis that is aligned with the axis of symmetry, said piston assembly being mounted on said piston rod within the cylinder and thereby dividing the cylinder into a compression chamber adjacent said second end of said cylinder and a recoil chamber adjacent said first end of said cylinder, a compression head assembly secured within the cylinder near the second end thereof, said compression head assembly including a base member and valve means for providing fluid flow across the base member as said piston assembly slidably moves within the cylinder, the improvement of the compression head assembly comprising in combination :

- (a) a one piece valve stem including a generally elongated hollow body having a first end and a closed second end, said first end terminating in a hollow cup shaped flange portion that extends generally radially outwardly therefrom, said flange portion including an inner radial area, an outer radial area, and at least one passage through the flange portion within the inner radial area thereof;
- (b) said base member having first and second sides and an opening therethrough which is larger than the inner radial area of said flange portion of said one piece valve stem, the first and second sides of the base member adjacent the opening defining a base valve seat and a base retaining shoulder, respectively, the generally elongated body of the one piece valve stem being slidably fitted through the opening of the base member for reciprocal movement between a first position wherein the flange portion of the one piece valve stem abuts the base valve seat and a second position wherein the flange portion of the one piece valve stem is spaced apart from the base valve seat;
- (c) an annular disk valve slidably fitted around the generally elongated body for reciprocal movement between a first position wherein the disk valve abuts the flange portion and a second position wherein the disk valve is spaced apart from the flange portion;
- (d) a valve stop member secured to the second end of the generally elongated body of the one piece valve stem;
- (e) a first bias member positioned between the disk valve member and the valve stop member, biasing the disk valve member toward its first position in abutment with the flange portion to thereby close the passages through the flange portion within the inner radial area;
- (f) a second bias member positioned between the base retaining shoulder of the base member and the valve stop member, biasing the flange portion of

the one piece valve stem towards its first position in abutment with the base valve seat on the base member to thereby close the opening through the base member; and

(g) said one piece valve stem, said annular disk valve, said valve stop member, and said first and second bias members cooperating with the base member to define the improved compression head assembly; wherein the shock absorbing device has a compression mode and a recoil mode, the first position of the one piece valve stem in combination with the second position of the disk valve member defining a flow path for the fluid out of the compression chamber when the shock absorbing structure is in a recoil mode, the dimensions of the flow path in the compression mode being substantially independent of the dimensions of the flow path in the recoil mode.

Comp. specn. 27 pages.

Drg. 2 sheets

Ind. Cl : 174F [LII(4)]

160642

Int. Cl. : F 16f—9/00.

#### AN IMPROVED PRESSURIZED GAS CHARGING APPARATUS/DEVICE FOR SHOCK ABSORBERS.

Applicants : MAREMONT CORPORATION, 200 EAST RANDOLPH DRIVE, CHICAGO, ILLINOIS 66601, U.S.A.

Inventor : JOSEPH CUBALCHINI.

Application No. 163/Bom/1984 filed June 1, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

#### 7 Claims

An improved apparatus for introducing a gas under pressure to a pressurized, piston rod receiving device, the device having a working chamber, a cylindrical piston rod extending out from the working chamber and a lip seal preventing the pressurizing gas within the chamber from leaving the rod end portion of the chamber as the piston rod moves operably with respect to said seal and said working chamber, said seal having an upper lip portion and a lower lip portion, the apparatus comprising a gas charging head means including a first cavity for receiving the top of the piston rod, said gas charging head means for receiving a force to apply a corresponding force to the piston rod moving the piston rod into the chamber; gas inlet means including an opening formed in said gas charging head means and communicating with said first cavity, said gas inlet means for receiving gas under pressure into said first cavity; seal penetrating means connected with said gas charging head means and including a bottom edge of said bottom edge having gas passages formed therein for passing gas therethrough; a tip structure formed at said bottom edge of said penetrating means for deflecting the upper portion of said lip seal as the seal penetrating means is moved relative to the lip seal, said tip structure forcing said upper portion of the seal radially away from the piston rod permitting movement of the penetrating means between the upper portion of the seal and the piston rod and permitting gas under pressure to flow past said upper portion of the seal via said gas passages whereby said gas is operative to generate sufficient force to move said lower lip portion out of sealing engagement with said piston rod, thereby facilitating pressurization of said working chamber.

Complete specn. 9 pages.

Drg. 1 sheet

CLASS : 93 [XXXIII (4)].

160643

Int. Cl. : B01 J-2/00.

#### TITLE : APARATUS FOR THE PRODUCTION OF GRANULES.

Applicants : SANTRADE LIMITED, ALPENQUAI 12, 6002 LUZERN, SWITZERLAND.

Inventor : REINHARD FROESCHKE.

Application No. 221/Bom/1984 filed on August 9, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 22 Claims

An apparatus for the production of granulates from a flowable, viscous mass, comprising :

a tubular body having a plurality of apertures which led into a generally downwardly facing, horizontally continuous slit,

means for conducting the flowable viscous mass under pressure into said body and outwardly through said apertures and said slit,

a pair of rotatable drums spaced apart horizontally and rotatable about horizontal axes,

a belt extending around said drums to define upper and lower belt flights, said belt having perforations/orifices therein and being arranged so that said lower flight is horizontal and arranged in contacting engagement with a surface portion of said tubular body containing said slit,

means for driving at least one of said drums for moving said lower flight across said portion of said tubular body so that said perforations/orifices intermittently uncover said slit for the passage of drops of mass therethrough.

Compl. Specn. 19 pages.

Drgs. 3 sheets.

CLASS : 101F, 27I, 71B + C.

160644

Int. Cl. : EO 1g-5/00, EO 2d-19/00, EO 2f-5/00 + 7/00.

Title : A METHOD FOR SUBTERRANEAN INSULATION OF AN AREA OF THE GROUND AGAINST WATER SEEPAGE THERE THROUGH AND A DEVICE THEREFOR.

Applicant & Inventor : SHLOMO PINTO, ISRAELI NATIONAL, OF 50 BALFOUR STREET, NAHARIA, ISRAEL.

Application No. 314/Bom/1984 filed on 7th November, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 15 Claims

1. A method for subterranean insulation of an area of the ground against water seepage there through comprising the steps of :

- (a) forming a trench of a predetermined depth from a surface of the ground ;
- (b) widening said trench along one side thereof to form a widened portion;
- (c) applying a water repellent layer substantially along the bottom surface of said trench;
- (d) at least partly covering said water repellent layer with earth removed from a widened portion of said trench; and
- (e) selectively repeating steps (b), (c) and (d) until the entire area of the ground is insulated, wherein in repeating step (c) a newly applied layer is applied along a bottom surface of an adjacent previously widened portion of the trench, partly contacting and overlapping a previously applied layer.

Compl. Specn. 12 pages.

Drgs. 2 sheets.

CLASS : 39B, 170 B.

160645

Int. Cl. : B01j 17/02, C01d-3/04, C11d-3/04.

Title : IMPROVED METHOD OF PREPARING MODIFIED SODIUM CHLORIDE FOR USE IN POWDER DETERGENT COMPOSITIONS.

Applicants : HINDUSTAN LEVER LIMITED at Hindustan Lever House, 165/166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventor : NIRAJ DHANSUKHLAL MISTRY, VINOD KUMAR RAMNIRANJAN DHANUKA.

Application No. 76/Bom/1986 filed on the 27th February, 1986.

Divisional to Application No. 64/Bom/1984, dated 16th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

### 2 Claims

A process for preparing modified sodium chloride having desired low bulk density suited for use in the manufacturing of detergent powders which comprises adding 0.1% to 5.0% by wt. of modifying agent as herein described based on sodium chloride to an aqueous solution of sodium chloride followed by co-crystallisation of the sodium chloride along with the said modifying agent from the solution by evaporation.

Compl. Specn. 13 pages.

Drg. Nil.

CLASS : 128H. 160646

Int. Cl. : A61f-5/46.

Title : AN IMPROVED INTRA UTERINE CONTRACEPTIVE DEVICE.

Applicant & Inventor : DR. ROHINEE MERCHANT, RESIDING AT DR. MERCHANT'S HOSPITAL, S/A, SION (WEST), BOMBAY, MAHARASHTRA, INDIA. AN INDIAN NATIONAL.

Application No. 170/Bom/1985 filed on the 3rd July, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

### 1 Claims

An improved intra uterine contraceptive device comprising a substantially circular shaped ring made of a non-toxic flexible material rod such as herein described, the said ring is open at one point where the two ends of the said rod overlap, a very thin copper wire of a high degree of purity wound around the said rod and a pair of cords or threads are attached with one of the two ends of the said rod.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 104 D. 160647

Int. Cl. : B 29 h-19/00.

Title : AN IMPROVED PROCESS FOR RECLAIMING RUBBER FROM WASTE/SCRAPPED VEHICLE TYRES BY USING AN IMPROVED JACKETTED AUTOCLAVE OR THE LIKE VESSEL.

Applicant & Inventor : PRADIP WAMAN DESAI, AN INDIAN CITIZEN, LAXMI VISHNU SADAN, MAHARSHI KARVE ROAD, NAUPADA, BOMBAY-400 602, MAHARASHTRA, INDIA.

Application No. 262/Bom/1986 filed on September 17, 1986.

Ante-dated to 13th February, 1984 (Divisional of 38/Bom/84).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

### 2 Claims

An improved process for reclaiming rubber from waste/scrapped vehicle tyres by using an improved jacketted auto-

clave of the type described and claimed in my prior Indian Patent Application No. 38/Bom/1984 comprises of following steps :

(i) sorting out and slitting waste/scrapped vehicle tyres into two sections, debeading and removing steel wire reinforcement along inner peripheral edge of each of said splitted sections, further slicing into small pieces and crushing/grinding in a grinder/pulveriser to form powder of particle size of 30 to 40 mesh, the said powdered rubber mass also contains ground textile or nylon fibres;

(ii) charging the powder of rubber mass of step (i) 100 parts by weight into said jacketted autoclave alongwith solvents such as kerosene 2 parts by weight of rubber, reclaiming agent such as 'ACTIPLAST-N' 0.5 parts by weight of rubber, plasticizer such as 'DUTREX-R' 4 parts by weight of rubber stirring slowly and intermittently by rotating helically twisted blades on rotor shaft in clockwise/counter clockwise direction at 10 to 15 RPM and heating said autoclave to a temperature of 100°C by circulation of hot oil heated outside the said autoclave or heating by electrical heating means and on attaining said temperature of 100°C injecting into the said autoclave, water 2 to 5 parts by weight of the above admixture mass, using high pressure or piston type pump in the usual manner for maintaining said rotating rubber mass in damp/humid state and preventing fire hazards while raising temperature inside said autoclave further slowly from 100°C to 250°C by circulation of hot oil, heated externally outside said autoclave at temperature varying from 280°C to 290°C at a pressure of 7 Kg/Cm<sup>2</sup> through jacketted wall of said autoclave for a period of about 4 hours while slow stirring of said rubber mass is continued as before :

(iii) stopping the circulation of hot oil or switching off electrical heaters and allowing said autoclave to get rapidly cooled down to 100°C by circulating cold oil through jacketted wall thereof and letting out steam within said autoclave through steam outlet provided therefor;

(iv) opening the lower plug type closure of said autoclave to empty the reclaimed rubber mass of step (iii) while clockwise/counter clockwise stirring to rubber mass by said stirrers in continued for pushing out the reclaimed rubber mass from autoclave.

Compl. Specn. 6 pages.

Drg. Nil.

CLASS : 32 F 2 (b).

160648

Int. Cl. : V 07 d 5/40.

"A PROCESS FOR PREPARING A 2, 3-DIHYDRO-2, 2-DIMETHYL BENZOFURAN-7-YL N-(N, N-DISUBSTITUTED AMINOSULFENYL)-N-METHYL CARBAMATE".

Applicant : OTSUKA CHEMICAL CO., LTD., A JAPANESE COMPANY, of No. 10, Bunge-MACHI, HIGASHI-Ku, OSAKA-SHI, OSAKA, JAPAN.

Inventors : 1. NOBUYOSHI ASAI, 2. TAKASHI SOEDA, 3. AKIRA TANAKA, 4. TAKESHI GOTO.

Application for Patent No. 357/Mas/84, filed on 17th March, 1984.

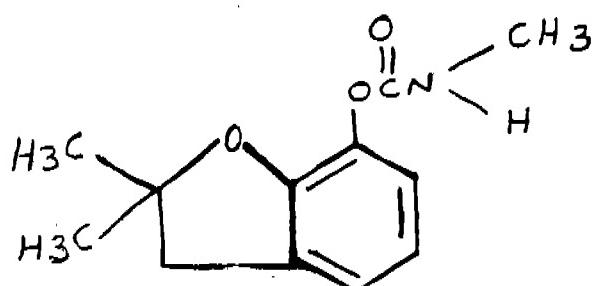
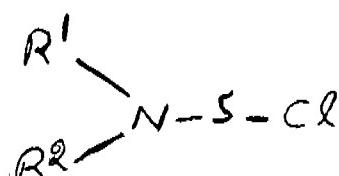
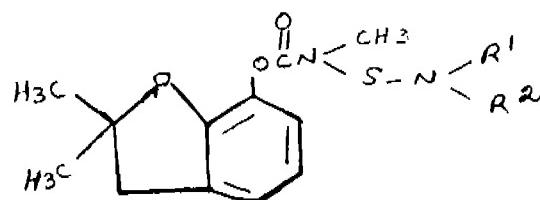
Division of Application No. 354/Cai/82, dated 30th March, 1982 (156106).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

### 3 Claims

A process for preparing a 2, 3-dihydro-2, 2-dimethyl benzofuran-7-yl N-(N, N-disubstituted aminosulfonyl)-N-

methyl carbamate represented by the formula (III) of the accompanying drawings



wherein R<sup>1</sup> and R<sup>2</sup> which may be the same or different each represents X-COOR<sup>a</sup>, in which X represents an alkylene group having 1 to 6 carbon atoms, and R<sup>a</sup> represents an alkyl group having 1 to 8 carbon atoms, or a cycloalkyl group having 3 to 6 carbon atoms; which comprise reacting 1 to 2 moles of aminosulfenyl chloride derivative represented by the formula (I) of the accompanying drawings wherein R<sup>1</sup> and R<sup>2</sup> are the same as defined above,

with 1 mole of 2, 3-dihydro-2, dimethyl benzofuran-7-yl N-methyl-carbamate represented by the formula (II)

at a temperature of —20 to 50°C for 1 to 20 hours in the presence of a basic compound.

Compl. Specn. 17 pages.

Drg. 1 sheet.

CLASS : 32 F 2 a.

160649

Int. Cl. : C 07 c 87/64.

**"A PROCESS FOR THE PREPARATION OF NEW BICYCLIC COMPOUNDS".**

Applicant : RICHER GEDEON VEGYESZLTI GYAR RT., of 19-21 Gyermek ut, Budapest Hungary, a body corporate organised under the laws of Hungary.

Inventors : Dr. KAROLY NADOR, 2. Dr. GABOR KRAISS, 3. Dr. KATALIN SINKO, 4. Dr. MARGIT PAROCZAI, 5. Dr. EGON KARPATI, 6. Dr. LASZLO SZPORNY.

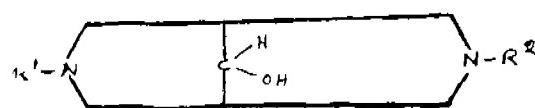
Application for Patent No. 369/Mas/84 dated 21st May, 1984.

Division of Application No. 832/Cal/82 dated 20th July 1982. No. 155994.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A process for the preparation of a new bicyclic compound of the general formula (I) shown in the accompanying drawings



wherein R<sup>1</sup> and R<sup>2</sup> each represent a C<sub>1</sub>—<sub>8</sub> alkyl group, and R<sup>3</sup> is an esterified hydroxy group of the formula -OCD-R5, which represents :

- a phenyl-(C<sub>1</sub>—<sub>3</sub> alkyl)-carbonyloxy group,
- a cinnamoyloxy group having optionally a halogen or one or more C<sub>1</sub>—<sub>4</sub> alkoxy substituent(s),
- a benzyloxy group having optionally a C<sub>1</sub>—<sub>4</sub> alkyl, phenyl or trihalomethyl substituent or one or more C<sub>1</sub>—<sub>4</sub> alkoxy substituent(s), one or more halo substituent(s) and/or nitro substituent,
- a benzoyloxy group,
- a xanthene-9-carbonyloxy group,
- an optionally substituted naphthoxyloxy group, or
- an acyloxy group derived from a five or six-membered heterocyclic acrboxylic acid bearing optionally a halo substituent on the ring,

or a stereoisomer or a pharmaceutically acceptable acid addition salt thereof, characterized in that a compound of the general formula (II),

wherein R<sup>1</sup> and R<sup>2</sup> are as defined above, is reacted with a reactive derivative of the carboxylic acid of the general formula (IV),

namely with the halide of the acid in the presence of a tertiary amine or with the C<sub>1</sub>—<sub>8</sub> alkane ester of the acid in the presence of an alkali or alkali metal alcoholate and if desired the compound of the general formula (I) obtained is covered into its pharmaceutically acceptable acid addition salt in a known manner.

Compl. Specn. 23 pages.

Drg. 1 sheet.

CLASS : 179 G.

160650

Int. Cl. : A 47 1 23/00.

**"AN APPLICATION FOR APPLYING LIQUIDS TO SURFACES".**

Applicant : RECKITT & COLMAN PRODUCTS LIMITED, a British Company, of P. O. Box 26, 1-17, Burlington Lane, London, England, Great Britain W4 2RW.

Inventor : GEOFFRY ROBERT HAMMOND.

Application for Patent No. 377/Mas/84 filed on 24th May, 1984.

Convention date on 26th May 1983 No. 8314 585. (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims

An applicator for applying liquids to surface when attached over the open mouth of a container, the applicator comprising a substantially rigid body engageable with the container mouth, an applicator pad bonded to the body

a resilient diaphragm associated with the body and provided with a slit for the passage of liquid from the container, and an actuator member having an end in contact with the diaphragm and the other end extending into the applicator pad such that when applicator/pad is pressed against a surface to be treated the actuator member is displaced causing the diaphragm to distort, opening the slit and allowing liquid to flow from the container to the applicator pad, characterised in that the body has a transverse wall having a dispensing aperture for liquid in the container, the applicator pad is bonded to the body on one side of the transverse wall remote from the container, the diaphragm is located on the other side of the transverse wall and adapted to cover the dispensing aperture and the slit in the diaphragm is situated intermediate its periphery and that portion adapted to cover the dispensing aperture.

Compl. Specn. 12 pages.

Drg. 1 sheet.

CLASS : 91.

160651.

Int. Cl. : G 05 d 13/10.

**CENTRIFUGAL SPEED GOVERNOR FOR AN INTERNAL COMBUSTION ENGINE.**

Applicant : ROBERT BOSCH GMBH, OF POSTFACH, 50, 7000 STUTTGART 1, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

Inventor : WERNER BRUHMANN.

Application No. 400/MAS/84 filed on 31st May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

8 Claims

A centrifugal speed governor for an internal combustion engine, comprising a control member which is adjusted in dependence upon the engine speed, a force transmission member which is subjected to the force of at least one governor spring, an adaptation capsule upon which the control member can act and which is screwed into the force transmission member and comprises a stop housing in the form of a screw-threaded sleeve and having a longitudinal bore, a stop pin which is received in the longitudinal bore and projects beyond the force transmission member and whose amount of projection, dependent upon the installed position of the adaptation capsule in the force transmission member, determines an adaptation control stroke, and an adaptation spring which is also received in the longitudinal bore and abuts at one end against the stop pin and at the other end against an abutment within the stop housing, the longitudinal bore of the stop housing having an internal screw thread, and the abutment for the adaptation spring being formed by an end face of a steplessly adjustable set screw which is secured in position within the stop housing in the region of the internal screw of the stop housing thereby defining the initial compression of the adaptation spring.

Compl. Specn. 22 pages.

Drgs. 22 sheets.

CLASS : 160 A &amp; C.

160652.

Int. Cl. B 60 j 1/16.

**A BUS WINDOW SHUTTER FRAME.**

Applicant : L. G. BALAKRISHNAN & BROS. LIMITED, TRANSPORT HOUSE, KARUR 639 002, TAMIL NADU, INDIA, A COMPANY DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

Inventor : RANGASAMY NAIDU NAGARAJAN.

Application No. 425/MAS/84 filed on 12th June 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

3 Claims

A bus window shutter frame comprising a frame with vertically disposed lateral channels for running a collapsible louvre screen therethrough characterised in that the frame has a single body, the faces whereof on either side are made of metal and FRP respectively, the channels being disposed between the said faces, the said face made of FRP extending all around the said body to form a perimetral flange, the surface of the said face made of FRP having ribs or bosses adjoining the inner corners thereof.

Compl. Specn. 6 pages.

Drg. 1 sheet.

CLASS : 172 D8.

160653.

Int. Cl. : D 01 g 25/00.

**DEVICE FOR DOUBLING OF FIBRE WEBS.**

Applicants : MASCHINENFABRIK RIETER AG, A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF CH-8406 WINTERTHUR, SWITZERLAND.

Inventors : GIUSEPPE VERZILLI, RENE SCHMID.

Application No. 438/MAS/84 filed on 15th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

15 Claims

Device for doubling of fibre webs (8) with a web transport means (4) and a web collector element (7) and with a diverter plate arrangement (6) for diverting the web (8) from the transport direction of the web transport means (4) into the transport direction of the said collector element (7) characterised in that between the web transport means (4) and the diverter plate arrangement (6) a web diverter (5) is provided, the diverter plate arrangement being located underneath the web transport means (4).

Compl. Specn. 11 pages.

Drgs. 4 sheets.

CLASS : 32 F2 c.

160654.

Int. Cl. : C 07 c 161/02.

**A PROCESS FOR THE PREPARATION OF METHYLENEBISTHIOCYANATE.**

Applicant : SOUTHERN PETROCHEMICAL INDUSTRIES CORPORATION LTD., 97, MOUNT ROAD, MADRAS-600-032, TAMIL NADU, INDIA.

Inventors : DR. RENGASAMY PALANIAPPAN.

Application No. 574/MAS/84 filed August 6, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

4 Claims

A process for the preparation of methylenebis(hiocyanate) characterised by reacting dihalomethane with an alkali metal thiocyanate or ammonium thiocyanate in solution at a temperature substantially in the range of 75°C—100°C and at normal pressure or high pressure substantially in the range of 2 to 6 kg/cm<sup>2</sup> and over a predetermined period of time such as herein described, before cooling the reaction medium to separate methylenebis(hiocyanate) crystals, the reaction being carried out in the presence of a catalyst such as herein described.

Compl. Specn. 7 pages.

Drg. Nil.

CLASS : 32 F1 &amp; 32 F2(b).

160655.

Int. Cl. : C 07 d 53/06.

## PROCESS FOR THE PREPARATION ON PYRIDO [1, 4] BENZODIAZEPINES.

Applicant : A. H. ROBINS COMPANY, INC., OF 1407 CUMMINGS DRIVE, RICHMOND, VIRGINIA 23220, UNITED STATES OF AMERICA, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF VIRGINIA, UNITED STATES OF AMERICA.

Inventor : CHANDLER ROY TAYLOR.

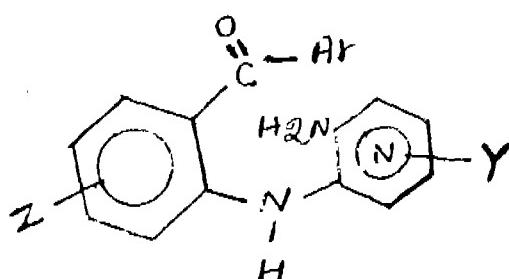
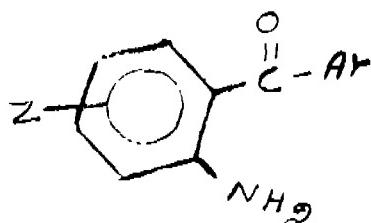
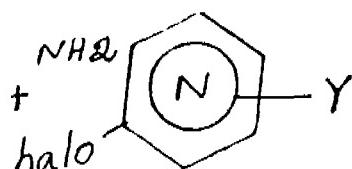
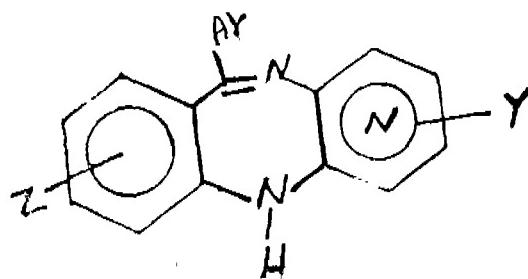
Application No. 608/MAS/84 filed August 14, 1984.

Division of Application No. 1261/CAL/81 dated 13th November, 1981, 136080.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

## 2 Claims

A process for the preparation of pyrido (1, 4) benzodiazepines having the formula VI of the accompanying drawings,



wherein Ar is selected from the group consisting of 2, 3 or 4-pyridinyl, 2 or 3 thiienyl, phenyl or phenyl substituted

by 1 to 3 radicals selected from halo, loweralkyl, loweralkoxy trifluoromethyl or nitro and may be the same or different,

Z is selected from the group consisting of hydrogen halogen, loweralkyl, loweralkoxy, hydroxy or nitro, and

Y is selected from the group consisting of hydrogen or 1-2 radicals selected from loweralkyl, loweralkoxy or hydroxy and may be the same or different, comprising the steps of step 1, heating to a temperature of 170° to 200°C a mixture of haloamine pyridine having the formula IV of chart 1 of the accompanying drawings.

and an (aminophenyl) arylmethanone having the formula III of chart 1 of the accompanying drawings,

or a reaction product thereof having the formula II of Chart 1 of the accompanying drawings,

wherein Y, Z and Ar are as defined above, removing water of the reaction under reflux in an aprotic solvent to cyclize to a pyrido (1, 4) benzodiazepine having the formula VI

wherein Ar, Y and Z are as defined above.

Compl. Specn. 55 pages.

Drg. 2 sheets.

CLASS : 55 D<sub>3</sub> [XIX (1)].

160656

Int. Cl. : C 07 c 101/00,  
A 01 n 9/00.

## “A PROCESS FOR THE PREPARATION OF A SYNERGISTIC HERBICIDAL COMPOSITION.”

Applicant : STAUFFER CHEMICAL COMPANY, WESTPORT, CONNECTICUT 06881, U.S.A., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventors : 1. CHARLES KEZERIAN,  
2. JAMES LEROY AHLE.

Application No. 751/MAS/84, filed 5th October, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras.

## 2 Claims

A process for the preparation of a synergistic herbicidal composition which comprises admixing trimethyl sulfonium salt of N-phosphonomethylglycine with 2-[4-(5-trifluoromethyl-2-phridyloxy)-phenoxy]-pentanoic acid, ethyl ester in a weight ratio of 1 : 1 to 3 : 1.

Compl. specn. 12 pages.

Drg. 1 sheet.

CLASS : 182 C, D &amp; 32 C.

160657

Int. Cl. : C 07 g 7/02.

## “A PROCESS FOR CONVERTING STARCH INTO SYRUPS BY USING ENZYMES”.

Applicant : NOVO INDUSTRI A/S, A DANISH COMPANY OF NOVO ALLE, DK-2880 BAGSVAERD, DENMARK.

Inventors : 1. GRETHE CAMILLA NIELSEN, 2. IVAN VERNER DIERS, 3. HELIE OUTTRUP, 4. BARRIE EDMUND NORMAN.

Application for Patent No. 791/Mas/84 filed on 22nd October, 1984.

Division of Application No. 434/CAL/82 filed on 20th April, 1982.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

## 5 Claims

A process for converting starch into syrups containing dextrose and/or maltose, which process comprises saccharification

tion of starch or starch hydrolysates in the presence of an enzyme system consisting of an effective amount as herein described of the novel debranching enzyme such as hercinc-before described and a saccharifying enzyme selected from the group consisting of glucoamylase and beta-amylase, the said saccharification is conducted in the PH-range of from 3.5 to 5.5 at a temperature in the range of from 55°C to 65°C.

Compl. specn. 34 pages.

Drg. 1 sheet.

CLASS : 33.

160658

Int. Cl. : B22d 45/00.

**"A SLIDE GATE VALVE FOR CONTROLLING THE FLOW OF MOLTEN METAL FROM A TEEMING VESSEL".**

Applicant : USS ENGINEERS AND CONSULTANTS, INC., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA DOING BUSINESS AT 600 GRANT STREET, PITTSBURGH, STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA.

Inventor : EARL PAGE SHAPLAND.

Application for Patent No. 82/Del/83 filed on 11th February, 1983.

Divisional to Patent Application No. 387/Del/79 anti dated to 30th May, 1979.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**2 Claims**

A slide gate valve for controlling the flow of molten metal from a teeming vessel having a well block defining a pour opening from said vessel, said valve comprising :

a casing attached to said vessel in which a top plate having an orifice aligned with said well block opening is fixedly secured and a refractory gate plate containing a flow opening and a solid closing portion is slidably movable with respect to the top plate to place said flow opening or said solid portion in registry with the top plate orifice to control the flow of metal through the valve, said top plate orifice containing a nozzle insert extending above the upper surface of said top plate to extend axially into, and securely received within the well block opening in surface-to-surface contact therewith for sealing the seam between the wellblock and the top plate.

Compl. Specn. 16 Pages.

Drg. 6 Sheets.

CLASS : 187 (H+F).

160659

Int. Cl. : H04 m 1/26, 13/00.

**"IMPROVEMENTS IN OR RELATING TO TELEPHONIC CIRCUIT FOR TRANSMITTING MESSAGES TO A TELEPHONE SET THROUGH THE SUBSCRIBER'S LINE IN A TELEPHONE".**

Applicants : LEONELLO SEGRE-AMAR OF 26 AVENUE DE LA GRANDE-BRETAGNE, MONTE CARLE, MONACO, AN ITALIAN CITIZEN.

Inventor : LEONELLO SEGRE-AMAR.

Application for Patent No. 929/DEL/82 filed on 21st December, 1982.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.  
2-167GI/87

**20 Claims**

A telephone circuit comprising a plurality of subscriber stations each provided with a subscriber terminal including a telephone set, a telephone transmission network (2) including central stations each of said subscriber stations being interconnectable to another of said subscriber stations through said transmission network, service signal generating means provided in said central stations for generating and emitting service signals relating to the establishing of a telephone connection between two subscriber stations, and telephone lines means connecting the output of said service signal generating (GS) means to said subscriber stations for transmitting said service signals to a subscriber station emitting a call for the establishment of a telephone connection with another subscriber station, a message transmitting means connected to said telephone lines means for transmitting message to a subscriber station calling for the establishment of a telephone connection during the period of establishing said connection, said message transmitting means comprising message generator means (GM) for generating and emitting said messages and message transmitting circuit means, and a mixer (TRMM) having a first input (E) connectible to said service signal generating means through said service signal transmitting circuit means and a second input (E 2) connectible to said message generator means through said message transmitting circuit means, said mixer having an output (S) connected to said telephone line (B, LT) means and said first and second mixer inputs being simultaneously connected to said service signal generating (GS) means and said message generator means (GM).

Compl. Specn. 23 Pages.

Drg. 3 Sheets.

CLASS : 147 E & 43 F.

160660

Int. Cl. : G11b, 23/00, 23/04 & 25/10.

**"TAPE CASSETTE".**

Applicant : SONY CORPORATION, A CORPORATION OF JAPAN, LOCATED AT 7-35 KITA SHINAGAWA 6 CHOME, SHINAGAWA-KU, TOKYO, JAPAN.

Inventors : FUJIMORI TOHRU & YOSHIO KUSUI.

Application for Patent No. 33/Del/1983 filed on 18th January, 1983.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**7 Claims**

A tape cassette comprising : a housing of generally rectangular configuration containing reels on which a supply of tape is wound and having top and bottom walls and peripheral wall extending between said top and bottom walls along three sides of the housing so as to form an opening along the fourth side of the housing, said top and bottom walls having first and second cutouts communicating with said opening and extending along a portion of said fourth side of the housing, respectively, the tape being guided between said reels in a path having a run extending along said opening a front lid mounted on said housing and being movable relative thereto between a closed position covering said opening and an opened position exposing said opening; and a back lid movable in connection with the movement of said front lid between said closed position wherein said back lid is positioned behind said front lid and said opened position wherein said back lid is taken away from the back side of said tape so that said run of the tape can be engaged through said second cutout for withdrawal of the tape through said opening, and said back lid having a portion of top lid which closes said first cut-out in said closed position so that said run of the tape is enclosed by said front and back lids.

Compl. Specn. 15 pages.

Drg. 4 Sheets.

CLASS : 69D [LIX(1)].

160661

Int. Cl. : H01 h 71/00.

**"CURRENT REVERSER WITH ELECTROMAGNETIC CONTROL AND MECHANICAL LOCKING DEVICE".**

Applicant : LA TELEMECANIQUE ELECTRIQUE, OF 33 BIS, AVENUE DU MARECHAL-JOFFRE, 92000 NANTERRE, FRANCE, A FRENCH COMPANY.

Inventors : LERUDE GERARD  
LESOILE JACQUES

Application for Patent No. 141/Del/83 filed on 8th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

**5 Claims**

A current reverser with electromagnetic control and mechanical locking device said reverser including two identical contactor systems each equipped with a fixed yoke electromagnet, a coil and a movable armature coupled by connection keys to a set of switches having fixed contacts connected to a terminal and a mechanical locking device having two levers which comprise first end portions coupled to the armature and second end portions which are alternately displaced in a common area that may be occupied by only one of said second end portions, characterised in that the said reverser is housed in a casing structure, said casing structure comprising a half-casing (3) that includes all of the output terminals (35) of the two sets of switches (49, 50) and having two identical, parallel and internal housings (9, 10) to receive and guide a said connection key (19, 20) of a said contactor and the associated armature (21, 22) and means for pivoting (54, 55) the two levers (56, 57) mounted on a lateral wall (7) of said half-casing (3), between a first part (36) of the half-casing (3) which receives a row of said output terminals (35) and a second part (11) of the half-casing (3) that has at least a portion of the fastening base (13) of the current reverser, and said casing (2) further including to identical covers (70, 71) to close one of the housings each said cover having means for guiding the corresponding connection key, said covers each having input terminals (73, 73") of each set of said switches and being coupled to the half-casing along a joint plane P in which the two armatures (21, 22) and said connection keys (19, 20) move.

(Complete specification 12 pages)

(Drawing 3 sheets)

CLASS : 127 C.

160662

Int. Cl. : B65g 17/00

**"A CHAIN SLING ASSEMBLY".**

Applicant : PARSONS CONTROL LIMITED, A BRITISH COMPANY OF STOURPORT-ON-SEVERN, STOURPORT, WORCESTERSHIRE DY13 9AT, ENGLAND.

Inventor : MICHAEL JOHN MILLINGTON.

Application for Patent No. 242/Del/83 filed on 12th April, 1983.

Convention date 15th April, 1982/8210973/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

**5 Claims**

A chain sling assembly comprising a main link, a first connector link connected to said main link, and a second connector link a separably linked to said first connector link by means of a pin, two shackle secured to said second connector link, at least one of said shackles being provided with a shortening clutch and a chain having its one end connected by a pin to said shortening clutch, a seating being provided in said shortening clutch for linking an intermediate link of said chain.

(Complete specification 9 pages)

(Drawing 5 sheets)

CLASS : 206B [LXII].

160663

Int. Cl. : H04j 3/00.

**"APPARATUS FOR CHECKING ESTABLISHMENT AND EXISTENCE OF A DUPLEX CONNECTION FOR TRANSMITTING DIGITAL INFORMATION IN A TIME DIVISION MULTIPLEXED BUS NETWORK".**

Applicant(s) : TELEFONAKTIEBLAGE L M ERICSSON, MANUFACTURERS, OF S-126 25 STOCKHOLM, SWEDEN, A COMPANY ORGANISED UNDER THE LAWS OF SWEDEN.

Inventors : NILS URBAN HUGO FAGERSTEDT, STURE GOSTA ROOS AND FRANKO STIPCEVIC.

Application for Patent No. 271/Del/1983 filed on 27th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

**2 Claims**

Apparatus for use in a telecommunication system, for checking, with the aid of so-called through-connection testing, the establishment and existence of a duplex connection for transmitting digital information in a time division multiplexed bus network, to which subscribers are connected via line terminals, which apparatus comprises : a through-connection test information sending/receiving station (TCT) comprising a first parity check adder (M1) having inputs connected to outputs of a first series/parallel converter (SPI) the input of which is connected to a bus (TB), an uninverted and an inverted output of said first adder (M1) being connected to a second and a third input of a data selector (DS) respectively, a first input of said data selector being connected to a parity information output (P) of said first series/parallel converter (SPI).

a local processor (MP) having inputs connected to a central processor (CP) and a control output connected to an input of a control memory (CM), two control outputs of which are connected to corresponding control inputs (PCO, PCI) of said data selector (DS), an output is connected to a parity information input (P) of a parallel/series converter (PSI), further inputs of which are connected to corresponding outputs of said parallel/series converter (PSI), the output of said parallel/series converter being connected to a line Li, a comparison circuit (OR) having a first input connected to said parity information output (P) of the series/parallel converter (SPI) and a second input connected said uninverted output of said first adder (M1), the output of the comparison circuit (DR) being connected to an input of said local processor (MP), a condition counter (TR) having a stepping signal input connected to an output of the processor (MP), the output of the counter being connected to an input of said processor, and that a line terminal (PCM2) containing a second parity check adder (M2) having data inputs connected to a corresponding outputs of a second series/parallel converter (SP2) the input of which is connected to said bus (TB), a parity check bit output of said second adder (M2) being connected to a parity check input of a third parity check adder (M3) said third adder having data inputs connected to data outputs from a third series/parallel converter (SP3) said data outputs also being connected to data inputs of a third parallel/series converter (PS3), a parity check bit output of said third adder (M3) being connected to a corresponding input of the third parallel/series converter (PS3) the output of which is connected to said bus (TB), the input of said third series/parallel converter (SP3) being connected to a second transmission direction of a line (B), the outputs of said second series/parallel converter (SP2) also being connected to corresponding inputs of a second parallel/series converter (PS2) the output of which is connected to a first transmission direction of said line (B).

(Complete specification 13 pages)

(Drawings 3 sheets)

CLASS : 133A [LIX(3)].

160664

Int. Cl. : B 66b 1/00, H02p 7/00.

"AN INVERTER FOR THE SUPPLY OF POWER TO A MOTOR IN COMBINATION WITH A SYSTEM FOR THE PROTECTION OF THE OUTPUT POWER TRANSISTORS OF SAID INVERTER FOR THE SUPPLY OF POWER SAID MOTOR."

Applicant(s) : OTIS ELEVATOR COMPANY, A CORPORATION OF THE STATE OF NEW JERSEY UNITED STATES OF AMERICA, LOCATED AT TEN FARM SPRINGS, FARMINGTON, CONNECTICUT 06032, UNITED STATES OF AMERICA.

Inventor(s) : JALAL TAWFIQ SALIHI & LECA BOUCANER.

Application for Patent No. 313/Del/1983 filed on 13th May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

#### 6 Claims

An inverter for the supply of power to a motor in combination with a system for the protection of the output power transistors (T) of said inverter (16) for the supply of power to said motor (14), said motor having a plurality of windings (W1, W2, W3) and connected to said transistors, (T) wherein said system comprises;

inverter control means (18, 20, 21, 22, 24) connected to said transistors for providing a drive signal thereto for control of the motor (14), and inverter protection means (30) connected to the base emitter and collector of each said transistor (T), said protection means (30) supplying power to a fault detector means (FD-A to F) provided in said inverter control means, said fault detection means adapted to cut off power to said transistor in response to the existence of fault conditions manifested by the collector emitter voltage of the transistor generated when said drive signal is applied.

(Complete specification 17 pages) (Drawings Six sheets)

CLASS : 206 E.

160665

Int. Cl. : H01 L 15/02.

"METHOD FOR THE MANUFACTURE OF PHOTO-ELECTRIC CONVERSION DEVICE".

Applicant : SEMICONDUCTOR ENERGY LABORATORY COMPANY LIMITED OF 21-21 KITAKARA-SUYAMA 7-CHOME, SETAGAYA-KU, TOKYO, JAPAN.

Inventors : YAMAZAKI SHUNPEI, WATABE SATSUKI.

Application for Patent No. 511/Del/83 filed on 27th July, 1983.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 15 Claims

A method for the manufacture of a photoelectric conversion device, comprising the steps of :

forming a first conductive layer on a substrate having a flat insulating surface;

subjecting the first conductive layer to first laser beam scanning to form therein (n-1) (where n is an integer larger than 2) sequentially arranged first grooves G<sub>1</sub> to G<sub>n-1</sub> and n sequentially arranged first electrodes E<sub>1</sub> to E<sub>n</sub> separated by the first grooves G<sub>1</sub> to G<sub>n-1</sub>, respectively;

forming a non-single-crystal semiconductor laminate layer on the substrate to cover the first grooves G<sub>1</sub> to G<sub>n-1</sub> and the first electrodes E<sub>1</sub> to E<sub>n</sub>;

Subjecting the non-single-crystal semiconductor laminate member to second laser beam scanning to form therein (n-1) sequentially arranged second grooves O<sub>1</sub> to O<sub>n-1</sub> to expose there through the first electrodes E<sub>1</sub> to E<sub>n-1</sub> to the outside, respectively, and sequentially arranged n non-single-crystal semiconductor laminate members Q<sub>1</sub> to Q<sub>n</sub> defined by the second grooves O<sub>1</sub> to O<sub>n-1</sub>, respectively;

forming on the substrate a second conductive layer which continuously extends on the non-single crystal semiconductor laminate members Q<sub>1</sub> to Q<sub>n</sub> and extends into the grooves O<sub>1</sub> to O<sub>n-1</sub> to provide coupling portions K<sub>1</sub> to K<sub>n-1</sub> which are connected to the first electrodes E<sub>1</sub> to E<sub>n-1</sub> through the grooves O<sub>1</sub> to O<sub>n-1</sub>; and

Subjecting the second conductive layer to third laser beam scanning to form therein (n-1) sequentially arranged isolating portions H<sub>1</sub> to H<sub>n-1</sub> and n sequentially arranged second electrodes F<sub>1</sub> to F<sub>n</sub> which are isolated by the isolating portions H<sub>1</sub> to H<sub>n-1</sub> respectively, and opposite the first electrodes E<sub>1</sub> to E<sub>n</sub> through the non-single-crystal semiconductor laminate members Q<sub>1</sub> to Q<sub>n</sub>, respectively, the second electrodes F<sub>2</sub> to F<sub>n</sub> being connected to the first electrodes E<sub>1</sub> to E<sub>n-1</sub> through the coupling portions K<sub>1</sub> to K<sub>n-1</sub>, respectively.

Compl. Specn. 54 pages.

Drg.s 11 sheets.

CLASS : 90 B, I &amp; J.

160666

Int. Cl. : C03b 9/00, 9/38, 9/34 &amp; 19/02.

"A MOULDING DEVICE FOR USE IN A CYCCLICALLY OPERATING GLASSWARE FORMING MACHINE".

Applicant : EMHART INDUSTRIES, INC., OF P.O. BOX 2730 HARTFORD, CONNECTICUT 06101, U.S.A.

Inventors : THOMAS VINCENT FOSTER & STANLEY PETER JONES.

Application for Patent No. 546/Del/83 filed on 9th August, 1983.

Convention date 3rd September, 1982/8225188& 17th March, 1983/8307462/(U.K.).

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 9 Claims

A moulding device for use in a cyclically operating glassware forming machine, the device comprising at least one mould (10;100) having a bottom plate (57;108) defining a bottom portion of a cavity (76;102) of the mould in which molten glass is moulded in the operation of the machine, and two side portions (70;110) defining side portions of the cavity, each side portion being movable by movement of supports therefor in a cycle of operation of the machine a first closed position thereof in which it engages the bottom plate and the other side portion to complete the mould cavity and to a second, open, position thereof in which the side portions are separated from one another, the side portions defining cooling passages (80;114) passing upwardly through the side portions through which air can pass to cool the side portions, characterised in that the cooling passages (80;114) in each side portion (70;110) each have an entrance in a bottom surface of that side portion and the moulding device comprises a plenum chamber (18;88;128;130;228;260;262) positioned beneath the first closed position or the second open position of each side portion and having one or more exits (56;96;256) which open upwardly and communicate, when the side portion is above the plenum chamber, either directly or through vertical passages (78) in the bottom plate with the entrances of the cooling passages (80;114) so that air is supplied to each cooling passage at substantially the same pressure, the plenum chamber having an entrance (22;132;232) connected to air supply means operable to blow air into the plenum chamber.

Compl. Specn. 23 pages.

Drg. 6 sheets.

CLASS : 168 H. 160667

Int. Cl. : G08b - 5/22.

"AN ELECTRO MAGNETIC SEMAPHORE INDICATOR".

Applicant : YOGENDRA NATH BHARGAVA, AN INDIAN NATIONAL RESIDING AT D-980, NEW FRIENDS COLONY, NEW DELHI-110 014, INDIA.

Inventor : YOGENDRA NATH BHARGAVA.

Application for Patent No. 481/Del/83 filed on 16th July, 1983.

Appropriate office for opposition proceeding (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

(Drawing)

An electromagnetic semaphore indicator comprising a terminal block secured to one end of a main housing, a dial housing secured to the opposite end of said main housing, coil core assemblies disposed within said main housing in electrical connection with its respective terminals of the terminal block, a rotor shaft pivotally secured within said main housing, a rotor fixed on the shaft and capable of being angularly displaced by said core assemblies, a dial plate disposed within said dial housing and secured to said rotor shaft, said coil core assemblies comprising a first pair of coils, the assemblies of said first pair being disposed in the same horizontal plane as the plane of said assemblies of the second pair.

Compl. Specn. 8 pages.

Drg. 1 sheet.

CLASS : 182C, 29A, 126A. 160668

Int. Cl. : C 13g 1/00, 1/06, G 01 n 15/06, 27/06, 47/10 & G 05d 21/02, 23/19, 24/02, 27/02.

"A DEVICE FOR ON-LINE ESTIMATION AND DISPLAY OF BRIX, PURITY AND SUPERSATURATION OF SUGAR MASSECUISTE BOILING IN CLOSED VESSEL UNDER VACUUM".

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION SOCIETIES ACT (ACT XXI OF 1860).

Inventor(s) : PAWAN KAPUR, VINAYAK LAXMAN PATIL & GANESH NARAYAN ACHARYA.

Application for Patent No. 407/Del/83 filed on 16th June, 1983.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 2 Claims

A device for on-line estimation and display of brix, purity and supersaturation of a massecuite boiling in closed vessel under vacuum comprising of at least four sensors of A.C. each of resistivity, viscosity/consistency/rheology, temperature and level; the said A.C. resistivity sensors consisting of means for the production of amplitude stabilised sine wave oscillation connected through its output to the inputs of a set of electrodes located within or in contact with the said liquid, the said amplitude stabilised sine wave oscillation producing means and said electrodes forming a pseudo bridge configuration for generating sets of reactance signals and resistive signals, means connected to said pseudo bridge configuration for amplifying and feeding said signals to sampler means and synchronous phasedetector means whereby the desired impedance signals are passed on to filter means, said filter means deriving the desired resistive signal representative of the true resistivity of said liquid which signal is displayed or recorded in any conventional manner,

viscosity/signal is displayed or recorded in any recorded in any conventional manner, viscosity/consistency/rheology sensor capable of giving 4-20 mA constant signal proportioned to the massecuite, temperature sensor and level sensors mounted inside the vessel at equispaced locations and connected to each individual transmitter and an analog to digital convertor module for producing digital signals, the said signals being fed to the output ports and display drive subsystems for on-line display of the process variables on the console panel of the above units being energised by a Central Power Supply Unit.

Compl. Specn. 14 pages.

Drg. 2 sheets.

CLASS : 98 I. 160669

Int. Cl. : F24j 3/00, B01d 9/00.

"A METHOD OF MAKING A SILICON SOLAR CELL".

Applicant : MOBIL SOLAR ENERGY CORPORATION FORMERLY MOBIL TYCO SOLAR ENERGY CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, AND HAVING A PRINCIPAL PLACE OF BUSINESS AT 16 HICKORY DRIVE, WALTHAM, MASSACHUSETTS, UNITED STATES OF AMERICA.

Inventors : JURIS PAUL KALEJS, THOMAS SUREK AND BRUCE CHALMERS.

Application for Patent No. 587/Del/83 filed on 29th August, 1983.

Divisional to application No. 53/Del/80 filed on 25th January, 1980 & Antedated 25-1-1980.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 2 Claims

A method of making silicon solar cell comprising the steps of :

growing a silicon ribbon from a silicon melt by means of a capillary die so that silicon carbide precipitating from the melt will be distributed asymmetrically in the ribbon, the growth of said ribbon being achieved by providing a die made wholly of graphite and having an upper end, a lower end and a capillary, with said upper end comprising first and second surfaces spaced from one another so as to provide an opening for said capillary and so that the first surface is located at a greater distance from said bottom end than is said second surface, immersing said bottom end in a reservoir supply of silicon melt so that said melt will substantially fill said capillary by action of capillary rise, establishing a growth pool of melt in the form of a film on said first and second end surfaces which extends to and is a continuum of the melt in said capillary, and growing a silicon ribbon from said growth pool of melt by pulling the same along the longitudinal axis of said die while maintaining the film so that it will have a first meniscus extending between said first end surface and said ribbon and a second meniscus extending between said second end surface and said ribbon, with said second meniscus having a greater length and extending lower than said first meniscus;

forming a p-N junction in a known manner at the side of said of said ribbon grown from the melt above the second end surface side of the die body; and

providing electrodes to the opposite sides of at least a portion of said ribbon with the electrode on the side of the ribbon grown from melt above the second end surface side of the die body being adapted to allow said junction to respond to radiant energy.

Compl. Specn. 24 pages.

Drg. 1 sheets

CLASS : 194 B & C<sub>6</sub>.

160670.

Int. Cl. : H01 m 35/18 H01 1 7/00, 15/02.

**A GLOW DISCHARGE DEPOSITION APPARATUS.**

Applicant : ENERGY CONVERSION DEVICES, INC., A CORPORATION OF DELAWARE, U.S.A., OF 1675 WEST MAPLE ROAD, TROY, MICHIGAN 48084, U.S.A.

Inventor : NATH PREM, HOFFMAN KEVIN RICHARD & LAARMAN TIMOTHY DEAN.

Application for Patent No. 720/Del/83 filed on 29th October, 1983.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

**4 Claims**

A glow discharge deposition apparatus for the deposition of semiconductor layers onto a relatively large area substrate, comprising a deposition chamber, said chamber containing at least one cathode having a cathode region lying above, below and to the sides of the cathode, a shield at least partially surrounding said cathode region, means for introducing process gases into the deposition chamber, in the plasma region between said cathode and said substrate enclosed within said shield, said introducing means adapted to establish a turbulent flow of process gases across the layered surface of the substrate, energizing means connected to the cathode for energizing said cathode and disassociating the process gases into plasma, means for withdrawing unused process gases from the cathode region to an evacuation means, connected to said shield, said shield including opposed flanges, the distance between said flanges being greater than the width of said substrate that may be moved through the chamber, so that the substrate may be urged against the flanges, said shield establishing with the substrate a direct path of travel for process gases from the introducing means, through the cathode region and to the evacuation means, whereby the entire transverse width of a substrate traveling through the cathode region of the deposition chamber is spaced from said flanges of said shield so that it is exposed for the deposition of semiconductor material thereunto.

Compl. Specn. 22 pages.

Drgs. 2 sheets.

CLASS : 6 B<sub>2</sub>, & 40 H.

160671.

Int. Cl. : B 01 d 3/36.

**PROCESS AND APPARATUS FOR FRACTIONATION OF A GASEOUS MIXTURE.**

Applicant : LINDE SKTIENGESELLSCHAFT, A GERMAN COMPANY, OF ABRAHAM LINCOLNSTRASSE 21, D-6200 WIESBADEN, FEDERAL REPUBLIC OF GERMANY.

Inventor : PETER STEWART BURR.

Application for Patent No. 349/Mas/84 filed on 14th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

**17 Claims**

A process for fractionating a gaseous mixture by distillation in a fractionating column the said gaseous mixture containing two or more components which form an azeotropic mixture or one or more components which tend to freeze out during fractionation, the said process comprising withdrawing a side stream fluid from the column during fractionation, removing by known means from said side stream fluid at least a portion of one of the components of the substantially azeotropic mixture or at least one of the components tending to freeze out, and recycling depleted side stream to said fractionating column.

Compl. Sepcn. 21 pages.

Drgs. 4 sheets.

CLASS : 90 H.

160672.

Int. Cl. : C 03 c 1/02.

**METHOD OF MAKING A NON-POROUS GLASS OR CERAMIC PRODUCT.**

Applicant : CORNING GLASS WORKS, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA OF CORNING, NEW YORK 14831, UNITED STATES OF AMERICA.

Inventor : GEORGE WALTER SCHERER.

Application No. 351/MAS/84 filed May 14, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

**8 Claims**

A method of making a non-porous glass or ceramic product which comprises the steps of :

- (a) suspending a "particulate oxide" such as herein described in a non-aqueous liquid vehicle to provide a stable fluid suspension of oxide particles, said particle having an average diameter not exceeding 0.5 microns;
- (b) forming the suspension into a selected configuration corresponding to that of the product to be made;
- (c) destabilizing and gelling the formed suspension by adding a gelling agent thereto in an amount at least effective to produce a gelled intermediate;
- (d) drying the gelled intermediate while maintaining the configuration thereof to provide an integral, essentially crack-free porous product having the configuration of the gelled intermediate; and
- (e) consolidating the porous product by heating it to a temperature at least sufficient to sinter the porous product into a non-porous glass or ceramic product.

Compl. Specn. 19 pages.

Drg. Nil.

CLASS : 155 F 1 &amp; F 2.

160673.

Int. Cl. D 06 m 15/66.

**A PROCESS FOR MAKING A SUBSTRATE WITH ELASTOMERIC FINISH.**

Applicant : UNION CARBIDE CORPORATION A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, LOCATED AT OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT 06817, U.S.A.

Inventors : 1. ARTHUR NOAH PINES. 2. ANGELO JAMES SABIA.

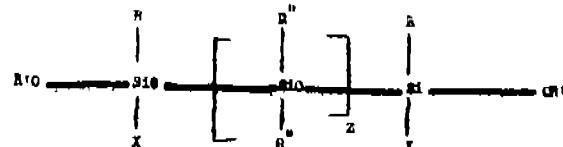
Application for Patent No. 363/Mas/84 filed on 18th May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

**17 Claims**

A process for making a substrate with elastomeric finish by :—

- (a) applying to said substrate a silicone blend comprising :—

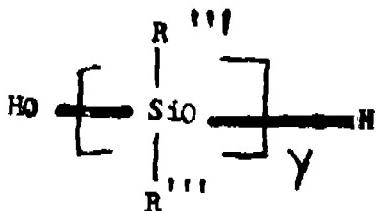


(1) a crosslinkable silicone intermediate selected from the group of silicone compositions of the general formula:

wherein R is individually hydrogen, OR' or a substituted or unsubstituted hydrocarbon radical containing from 1 to 12 carbon atoms;

R' is individually a hydrocarbon radical containing from 1 to 6 carbon atoms; and X is either R, OR' or  $[C_nH_2Si(R)](OR')_{n-a}$  wherein n is 1, 2 or 3 and a is 0, 1, or 2; z has a value from 10 to 500; and R'' is individually a hydrocarbon radical containing from 1 to 12 carbon atoms and

(2) a silanol selected from the group of silanols of the general formula:



wherein R'' is individually a hydrocarbon radical containing from 1 to 12 carbon atoms and y has a value of from 185 to 3500; and

(b) catalyzing and curing the silicone blend onto the substrate in known way to provide an elastomeric finish.

Compl. Specn. 40 pages. Drg. Nil.

CLASS : 58 B. 160674.

Int. Cl. : E 06 b 5/00.

#### A COMPOSITE REINFORCED CEMENT CONCRETE FRAME FOR DOORS, WINDOWS AND THE LIKE.

Applicant and Inventor : PIRAMUTHU KANDASUBBU, OF 52, BIG STREET, FIRST FLOOR, TRIPPLICANE, MADRAS 600 005. TAMIL NADU, INDIA, AN INDIAN.

Application for Patent No. 379/MAS/1984 filed on 25th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 8 Claims

A composite reinforced cement concrete frame for doors, windows and the like consisting of separate vertical and horizontal pieces comprising a body of cement concrete, steel reinforcement and wooden pegs for fixing hold fasts, clamps hinges, tower bolts, lock fittings, door closures, aldrops, and the like wherein said steel reinforcement consist of flat steel plates having "V" grooves at its edges and the said wooden pegs are inserted into these "V" grooves and revolved with the said steel reinforcement, the said vertical pieces being provided with a rod at least at one end thereof and the said horizontal piece being provided with at least 25 mm diameter bore holes on either ends and joining the vertical and horizontal pieces together by any known manner.

Compl. Specn. 16 pages. Drgs. 9 sheets.

CLASS : 128 F, G, K. 160675.

Int. Cl. A 61 m 1/00.

#### A DEVICE FOR EXTRACORPOREAL TREATMENT OF DISEASED BODY FLUID.

Applicant : BIOSPECIFIC TECHNOLOGIES, INC., OF 7528 AUBURN ROAD P.O. BOX 191, PAINESVILLE, OHIO-44077, U.S.A., A DELAWARE CORPORATION.

Inventors : MARK R. HONARD MARK A. HOLMES ROBERT D. JARRETT.

Application No. 398/MAS/84 filed on 30th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 10 Claims.

A device for the extracorporeal treatment of diseased body fluid which comprises :

- (a) means for withdrawing said diseased body fluid from a patient;
- (b) a chamber having an inlet and outlet port for receiving said body fluid;
- (c) a plurality of mechanically stable support members with bio-compatible polymer support positioned adjacently within said chamber the polymer capable of supporting chemical compounds as herein described for interacting with and binding specific pathological effectors or specific groups of pathological effectors carried by the body fluid that is passed through said chamber; and
- (d) means for returning said body fluid to said patient.

Compl. Specn. 32 pages.

Drgs. 7 sheest.

160676.

Int. Cl. : F 03 d 9/00, F 24 j 3/02.

#### A SOLAR CUM WIND ENERGY GENERATOR.

Applicant & Inventor : RAMAR CHETTIAR SENNAI-YAN CHETTIAR PONNUSWAMY CHETTIAR AYYATHURAI, SILLAMARATHUPATTI, MADURAI DISTRICT, TAMIL NADU, INDIA, INDIAN NATIONAL.

Application No. 406/MAS/84 filed on 2nd June 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 7 Claims

A solar cum wind energy generator comprising at least one container of fluid provided with a wind pressure face and pivoted on a rotatable mount disposed over a piston and cylinder; a link arrangement connecting the container to the piston, transmitting the wind pressure acting on the said face on to the piston to move the piston in one direction within the cylinder and thus perform work; a wind direction vane coupled to the link arrangement for keeping the said wind pressure face always aligned with the wind; known means for imparting a unidirectional pressure on the piston by the link arrangement; at least one duct provided with a reversible oneway valve communicating with the container and the cylinder for enabling vapours or expanded gas of the fluid within the cylinder, produced by solar heat, to enter the cylinder, act on the piston to move it in the said direction and thus perform work, while in the absence of solar heat, the position of the container is manually changeable to change the position of its pressure face to cause the wind pressure acting on the said face to move the piston in the opposite direction and thus perform work, the piston being also moved in the said opposite direction by the vacuum pressure generated by cooling of the expanded gas/condensed vapours to perform work, the said cooled gas/condensed vapours re-entering the container in the reversed position of the one-way valve under such vacuum pressure.

Compl. Specn. 11 pages.

Drg. 1 sheet.

160677.

CLASS : 195 D.

Int. Cl. : F 01 I 9/00.

#### AN ELECTRICALLY OPERATED VALVE ASSEMBLY.

Applicant : DOBSON PARK INDUSTRIES PLC, OF DOBSON PARK HOUSE, COLWICK, INDUSTRIAL ESTATE, NOTTINGHAM, ENGLAND, A BRITISH COMPANY.

Inventor : RICHARD WARD.

Applicaiton for Patent No. 434/Mas/84 filed on 14th June, 1984.

Convention date on 14th June 1983/8316137/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

13 Claims

An electrically operated valve assembly comprising a valve which has an operating push rod controlled by a motor driven cam, an electromagnetic device to operate the valve in one direction and a switching device to prevent reverse current flow if the valve should drive the electromagnetic device in reverse when the valve moves in a direction opposite to the said one direction.

Compl. Specn. 10 pages.

Drgs. 7 sheets.

CLASS : 205 B.

160678.

Int. Cl. : B 60 c 15/00.

A VEHICLE WHEEL.

Applicant : CONTINENTAL GUMMI-WERKE AKTIEN-GESELLSCHAFT, OF KONIGSWORTHER PLATZ 1, 3000 HANNOVER, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. PETER HANN. 2. ALFRED DUCHOW.

Application for Patent No. 444/Mas/84 filed on 19th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims

A vehicle wheel having a pneumatic tyre, said wheel comprising a rigid rim and a pneumatic vehicle tyre which is substantially formed from rubber or rubber-like plastics materials and has none-or multiply carcass formed from metallic and/or textile reinforcing members, said carcass being secured in the tyre beads by being wrapped around bead cores, wherein the tyre, by means of its beads, is disposed on rim seating surfaces adjacent the wheel flanges, and wherein the tyre wall extends laterally outwardly in a flat manner in the region of the wheel flanges characterized in that the curve of the neutral line of the carcass extends in the manner of a catenary curve, at least in the lower lateral wall region at wheel flange level and laterally externally of the wheel flage.

Compl. Specn. 12 pages.

Drgs. 3 sheets.

CLASS : 179 A.

160679.

Int. Cl. : B 65 d 41/00.

A REMOVAL-RESISTANT CAP AND CONTAINER ASSEMBLY.

Applicant : OWENS—ILLINOIS, INC. A CORPORATION OF THE STATE OF OHIO ONE SEA GATE TELEDO, OHIO 43666 UNITED STATES OF AMERICA.

Inventor : SIDNEY MORTON LIBIT.

Application for Patent No. 446/Mas/84 filed on 19th June 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

16 Claims

A removal—resistant cap and container assembly for use with a threaded necked container the assembly including a cap having a top with a depending circumferential skirt the cap having an inner diameter threaded portion extending from adjacent an open axial end of the skirt lying opposite a top of the cap the container having a neck terminating in an open annular top and having outer diameter threads dimensioned to engage the inner diameter threads of the cap

characterized in that the skirt has a diameter reducing interior circumferential bead intermediate skirt axial ends, the cap threads running out at the inner diameter bead a full diameter interior portion of the cap extending from the inner diameter bead to adjacent the top of the cap at least portion of the skirt which includes the threaded portion and the inner diameter bead being circumferentially resilient the outer diameter threads of the neck extending from adjacent the annual top towards a main body of the container, the neck having a diameter increasing outer diameter circumferential bead intermediate the main body in the annular top the outer diameter threads running out at the outer diameter bead the inner diameter bead having an inner diameter less than the outer diameter of the outer diameter bead the full diameter portion of the cap having an inner diameter at least as large as the diameter of the outer diameter bead and the outer diameter threads having an axial length and diameter sufficient to receive the threaded portion of the neck and the bead of the neck between the capped top and the cap inner diameter bead and the neck having an axial portion between the outer diameter bead and the main body having an axial length and outer diameter sufficient to be received within the threaded portion and inner diameter of the cap.

Compl. Specn 20 pages.

Drgs. 3 sheets.

CLASS : 32 F<sub>2</sub>(b)

53 F<sub>4</sub>

160680

Int. Cl. : C07d-51/00, 57/00.

"A PROCESS FOR PREPARING A QUINAZOLINE CARDIAC", STIMULANT AND A PHARMACEUTICALLY ACCEPTABLE SALT THEREOF.

Applicant : PFIZER CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE REPUBLIC OF PANAMA, OF CALLE 15/2, AVENIDA SANTA ISABEL, COLON, REPUBLIC OF PANAMA.

Inventors SIMON FRASER CAMPBELL, DAVID ANTHONY ROBERTS AND JOHN KENDRICK STUBBS.

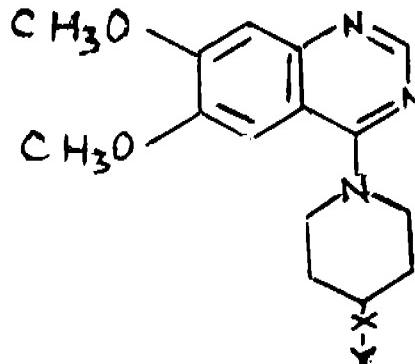
Application for Patent No. 297/Del/1983 filed on 10th May 1983.

Convention date 15-5-1982/8214206/(U.K.).

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

7 Claims

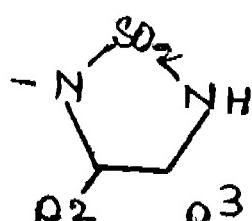
A process for preparing a quinazoline cardiac stimulant of the formula I



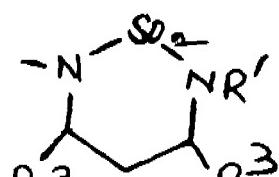
Formula-I

and a pharmaceutically acceptable salt thereof, wherein X is a straight or branched chain alkylene group having a total of from 1 to 4 carbon atoms : and Y is a radical 1 to 6

wherein R<sup>1</sup> is H or C<sub>1</sub>-C<sub>4</sub> alkyl and R<sup>2</sup> and R<sup>3</sup> are each independently H or CH<sub>3</sub>: characterised by reacting a quinazoline of the formula II



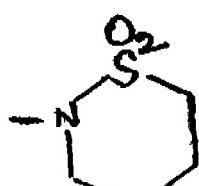
Radical 4



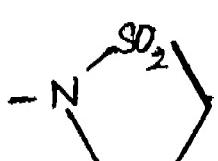
Radical 5



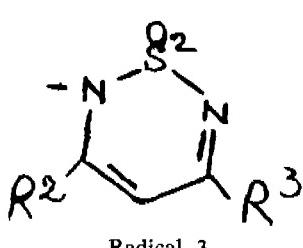
Radical 6



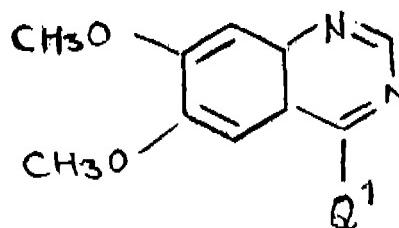
Radical 1



Radical 2

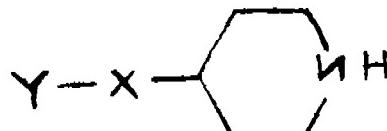


Radical 3



Formula II

where Q<sup>1</sup> is a good leaving group such as Cl, Br or I, with a piperidine of the formula III



Formula III

where X and Y are as defined in formula (I) or with an acid addition salt thereof, said process being followed by, optionally, conversion of a compound of the formula (I) into a pharmaceutically acceptable salt by a conventional method.

(Complete specification 44 pages) (Drawing 13 sheets)

CLASS : 143D4

160681

Int. Cl. : B65b 15/00.

"A FEED DEVICE FOR A WRAPPING MACHINE FOR WRAPPING COLLATED OR STACKED PRODUCTS".

Applicant(s) : KHOSLA ENGINEERS, A REGISTERED INDIAN PARTNERSHIP FIRM OF 644, SECTOR-16D, CHANDIGARH-160016, INDIA OF WHICH THE PARTNERS ARE LAJPAT RAI KHOSLA, AND RAJESH KHOSLA, INDIAN NATIONALS OF SAID ADDRESS.

Inventor : LAJPAT RAI KHOSLA.

Application for Patent No. 485/Del/1983 filed on 16th July, 1983.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

### 5 Claims

A feed device for a wrapping machine for wrapping of a collated or stacked products comprising a conveyor belt having a plurality of guide members forming lanes along the conveyor belt in each of which the said products are disposed, guide means at the gate or discharge end of each lane, an overhead pusher at the discharge end of said lanes for sequentially urging a predetermined number of the collated products from each lane into respective channels, being provided at the discharge end of said lanes.

(Complete specification 9 pages) (Drawings one sheet)

CLASS : 32 B. 160682

Int. Cl. C 07 C — 3/00 & 15/00.

**"A PROCESS FOR CATALYTIC TRANSALKYLATION".**

Applicant : THE BRITISH PETROLEUM COMPANY PLC., OF BRITANNIC HOUSE, MOOR LANE, LONDON, EC2Y 9 BU, ENGLAND, A BRITISH COMPANY.

Inventors : REGINALD GREGORY & DAVID JACK WESTLAKE.

Application for Patent No. 766/Del/1983 filed on 16th November, 1983. Convention application No. 8232992 dated 18-11-1982 (U.K.).

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

16 Claims

A catalytic transalkylation process for the preparation of an alkyl aromatic hydrocarbon such as herein described which comprises forming a C<sub>1</sub> to C<sub>30</sub> alkyl group by alkylation of an aromatic hydrocarbon with an alkylating agent in an alkylation zone and catalytically transalkylating said alkyl aromatic hydrocarbon characterised in that transalkylation is carried out in a transalkylation zone separate from the alkylation zone using a clay catalyst such as herein described.

(Complete specification 26 pages Drawing one sheet)

CLASS : 32 F<sub>2b</sub>. 160683

Int. Cl. : C 07d 93/02.

**"PROCESS FOR PREPARING A CRYSTALLINE, NON-HYDROSCOPIC, WATER-SOLUBLE N-(2-PYRIDYL)-2-METHYL-4-HYDROXY-2H-1, 2-BENZOTHIAZINE-3-CARBOXAMIDE 1, 1-DIOXIDE BASE SALTS".**

Applicant : PFIZER INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor : JOSEPH GEORGE LOMBARDINO.

Application for Patent No. 332/Del/82 filed on 28th April, 1982.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

11 Claims

A process for preparing a crystalline, non-hygroscopic, water-soluble base salts of N-(2-pyridyl)-2-methyl-4-hydroxy-2H-1, 2-benzothiazine-3-carboxamide 1, 1-dioxide characterised by reaction N-(2-pyridyl)-2-methyl-4-hydroxy-2H-1, 2-benzothiazine-3-carboxamide 1, 1-dioxide with an organic amino of general formula YNHCH<sub>2</sub>CH<sub>n</sub>X herein X is OH or NH<sub>2</sub> and Y is H or -CH<sub>2</sub>CH<sub>2</sub>OH, with the proviso that when Y is -CH<sub>2</sub>CH<sub>2</sub>OH, X is only OH.

(Complete specification 19 pages Drawing one sheet)

CLASS : 32 F<sub>2</sub>(B) & 55 E<sub>4</sub>. 160684

Int. Cl. : C 07 D — 93/02.

**A PROCESS FOR PREPARING A BASE SALT OF PIROXICAM DEPOSITED ON A PHARMACEUTICALLY-ACCEPTABLE CARRIER.**

Applicant : PFIZER INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 325 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : MELVIN MACKENZIE NOSEWORTHY.

Application for Patent No. 111/Del/1984 filed on the 07th February, 1984. Addition to application for patent No. 332/Del/1982 filed on the 28th April, 1982.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

8 Claims

1. A process for preparing a base salt of piroxicam deposited on a pharmaceutically-acceptable carrier, said base salt of piroxicam being the sodium salt, the ethanolamine salt or the diethanolamine salt, which comprises;

(a) combining piroxicam, a basic reagent selected from sodium hydroxide, trisodium phosphate, ethanolamine and diethanolamine and a pharmaceutically-acceptable carrier, in a solvent selected from water, alkanols having one to four carbons and mixtures thereof, at a temperature in the range from 10 to 40 °C;

wherein the piroxicam and the basic reagent are contacted in substantially equimolar proportions, the ratio of the carrier to the piroxicam is in the range from 5 : 1 to 30 : 1 by weight and the ratio of the solvent to the carrier is in the range from 1 : 1 to 1 : 5 by weight;

with the proviso that when said basic reagent is trisodium phosphate, said solvent must be at least 90% water by weight;

(b) granulating the product of step (a); and

(c) removing the solvent from the product of step (b).

(Complete specification 12 pages Drawing one sheet)

CLASS : 9A, 94E & 129G. 160685

Int. Cl. : B22f 1/00 & B22f 9/00.

**"A PROCESS OF FRAGMENTING A SUBSTRATE OF ALUMINIUM OR AN ALLOY THEREOF".**

Applicant : THE BRITISH PETROLEUM COMPANY PLC., OF BRITANNIC HOUSE, MOOR LANE, LONDON EC2Y 9BU, ENGLAND, A BRITISH COMPANY.

Inventor : ALAN ROBERT BEGG.

Application for patent No. 168/Del/84 filed on 27th February, 1984.

Convention date 15th March, 1983 /8307158/(U.K.).

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A process of fragmenting a substrate of aluminium or an alloy thereof to a powder comprising coating such as herein described the substrate surface with gallium and applying a deforming stress by any known method on the coated substrate to form the powder of grain size 0.5—250 microns.

(Complete specification 9 pages).

CLASS : 56B.

160686

Int. Cl. : C10g 11/00.

**"CATALYTIC HYDROCRACKING PROCESS FOR THE HYDROCRACKING OF HYDROCARBONACEOUS FEEDSTOCKS INTO LOWER BOILING HYDROCARBON PRODUCTS"**

Applicant : UOP INC., a corporation organised in the State of Delaware, with its principal place of business at Ten UOP Plaza, Algonquin & Mt. Prospect Roads, Des Plaines, Illinois 60016, U.S.A.

Inventors : PAUL RICHARD LAMB, STEVE THEODORE BAKES & BRIAN MURRAY WOOD.

Application for patent no. 339/Del/1984 filed on 18th April, 84.

Appropriate office for opposition proceedings (Rule 4, Patent Rule, 1972) Patent Office Branch, New Delhi-5.

## 9 Claims

A catalytic hydrocracking process for the hydrocracking of the hydrocarbonaceous feedstocks into hydrocarbon products boiling below about 650°F (340°C), which comprises:

- (a) contacting a hydrocarbon feedstock having a propensity to form polynuclear aromatic (PNA) compounds in a hydrocracking zone with hydrogen and a metal promoted crystalline zeolite hydrocracking catalyst of the kind such as herein described at elevated temperature of between 450°-850°F and pressure range between 500—4000 psig to give a substantial conversion to lower boiling products.
- (b) condensing the hydrocarbon effluent from said hydrocracking zone and separating in a manner known *per se* the same into a lower boiling hydrocarbon product and unconverted hydrocarbon oil boiling above about 650°F (340°C) and containing trace quantities of polynuclear aromatic compounds;
- (c) contacting at least a portion of said unconverted hydrocarbon oil containing polynuclear aromatic compounds with an adsorbent of the kind such as herein described which selectively retains said polynuclear aromatic compounds; and
- (d) recycling said unconverted hydrocarbon oil having a reduced concentration of polynuclear aromatic compounds resulting from step (c) to said hydrocracking zone.

Compl. Specn. 17 pages.

Drg. one sheet

CLASS : 102 D & 173 B.

160687

Int. Cl. : B05b-7/00, B05c-11/00.

**"PNEUMATIC MACHINE FOR PREPARING AND SPRAYING CONCRETE".**

Applicant : SHRI KAMAL KISHORE MODI, SMT. SAROJ DEVI DANGRA, SHRI YOGESH MAHESWARI, Partners of Surface Finishing Equipment Co., E-100, M.I.A., IIInd Phase, Basni, Jodhpur-5, Rajasthan, India.

Inventor : KAMAL KISHORE MODI.

Application for Patent No. 355/DEL/1984 filed on 26th April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rule, 1972) Patent Office Branch, New Delhi-5.

## 5 Claims

A pneumatic machine for preparing a concrete mix and then spraying the said concrete mix on a surface which is characterised in that it comprises in combination a means for preparing the concrete mix consisting of

an upper chamber with a hopper on top thereof,  
a lower operating chamber below the said upper chamber,  
an air hose connected to a compressed air supply means,  
a feed material hose for conveying the concrete feed material on a nozzle body

said nozzle body with a nozzle at its end fixed to the said feed material hose,

a contrivance at the middle of the said nozzle body which is connected to an inlet means for letting into the nozzle body water for hydrating the said feed material, and  
a regulating means provided on the said inlet means for controlling the water injected on to the feed material.

Compl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 103.

160688

Int. Cl. : C 23 f—11/00, 15/00.

**"A METHOD OF PROVIDING EROSION RESISTANT COATING ON METAL SURFACES."**

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, having its Registered Office at 18-20 Kasturbai Gandhi Marg, New Delhi-110001, India, an Indian Body Corporate.

Inventors: BALBIR SINGH MANN, & PUTHENMADOM RAMA IYER KRISHNAMOORTHY.

Application for Patent No. 359/DEL/1984 filed on 27 APR 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rule, 1972) Patent Office Branch, New Delhi-5.

## 8 Claims

An improved method for the manufacture of coated metal surfaces having an erosion resistant coating thereof, said coating being made of Ni-Cr-B-Si with or without WC having been applied in any conventional manner and sintered thereon characterized by the improvement that the said sintering of the coating applied on the metal surface is carried out at around 1000°C in an inert atmosphere or in vacuum.

Compl. Specn. 7 pages.

CLASS : 33A & D.

160689

Int. Cl. : C 22c 1/00 & 21/00.

**"AN APPARATUS FOR FORMING SHAPED ARTICLES OF A METAL OR ALLOY BY CASTING AND A PROCESS THEREOF".**

Applicant : CHIEF CONTROLLER, RESEARCH & DEVELOPMENT, Ministry of Defence, Government of India, New Delhi. India an Indian national.

Inventor : GANTA SATYANARAYANA REDDY.

Application for patent no. 371/Del/84 filed on 1st May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rule, 1972) Patent Office Branch, New Delhi-5.

## 10 Claims

An apparatus for forming shaped article of a metal or alloy by casting comprising a mould of a non-magnetic material and stator of an alternating current motor, the mould being disposed within said stator which is adapted to be connected to a source of alternating current for producing an electromagnetic field in molten metal or alloy poured in the mould for causing rotation of the molten metal or alloy while it cools.

Compl. Specn. 11 pages.

Drg. 3 sheets.

## AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Tambrands Limited, a British Company, of Dunsbury, Havant, Hampshire PO9 5DG, United Kingdom have made an application under section 57 of the Patents Act, 1970 for amendment of specification of their application for Patent No. 159496 for "Tampon applicator". The amendments are by way of correction. The application for amendment and the proposed amendments can be inspected free of charge at Patent Office, 234, Acharya Jagadish Bose Road, Calcutta-700017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition of the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written Statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

## RENEWAL FEES PAID

139979	140285	142418	143054	143583	143800	144189
144452	144673	145453	145616	145873	145993	146057
146068	146254	146530	146709	148113	148208	149993
149966	150387	150509	150511	150648	151346	151521
151674	152111	152819	153296	153901	154021	154116
154477	154631	154744	154810	154833	154911	155416
155624	155657	155693	156018	156038	156080	156247
156298	156384	156560	156603	156644	156679	156698
156766	156827	156964	156992	157029	157127	157151
157154	157317	157337	157414	157574	157655	157764
157799	157924	157925	157926	157927	157929	157960.

## RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 151632 dated the 15-12-80 made by Jnana Prabodhini on the 22-10-86 and notified in the Gazette of India, Part III, Section 2 dated the 28-2-87 has been allowed and the said patent restored.

## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 157844. Gur Charan Saini, an Indian citizen of B-66, Bangur Avenue, Calcutta-55, W. Bengal, India, "a Table Lamp". 6th January, 1987.

Class 3. No. 157755. Ellora Art Industries, P.O. Box 2193, Lohar Chawl, Bombay-400 002, Maharashtra State, an Indian Partnership firm. "1 Gang Two Way Switch". 11th December, 1986.

Class 3. No. 157756. Ellora Art Industries P.O. Box 2193 Lohar Chawl, Bombay-400 003, Maharashtra State, India, an Indian Partnership firm. "The Plate Switch". 11th December, 1986.

Class 3. No. 157757. Ellora Art Industries, P.O. Box 2193, Lohar Chawl, Bombay-400 002, Maharashtra State, India, an Indian Partnership firm. "The Plate Switches With Bell Push". 11th December, 1986.

Class 3. No. 157758. Ellora Art Industries, P.O. Box 2193, Lohar Chawl, Bombay-400 002, Maharashtra State, India, an Indian Partnership firm. "The Plate Switches with Bell Push". 11th December, 1986.

Class 3. No. 157759. Ellora Art Industries, P.O. Box 2193, Lohar Chawl, Bombay-400 002, Maharashtra State, India, an Indian Partnership firm. "The Plate Switch with Dimmer". 11th December, 1986.

Class 3. No. 157760. Ellora Art Industries, P.O. Box 2193, Lohar Chawl, Bombay-400 002, Maharashtra State, India, an Indian Partnership firm. "The Plate Switch with Indicator". 11th December, 1986.

Class 3. No. 157761. Ellora Art Industries, P.O. Box 2193, Lohar Chawl, Bombay-400 002, Maharashtra State, India, an Indian Partnership firm. "The Universal Socket". 11th December, 1986.

Class 3. No. 157762. Ellora Art Industries, P.O. Box 2193, Lohar Chawl, Bombay-400 002, Maharashtra State, India, an Indian Partnership firm. "The Four Gang Switch". 11th December, 1986.

Class 3. No. 157763. Ellora Art Industries, P.O. Box 2193, Lohar Chawl, Bombay-400 002, Maharashtra State, India, an Indian Partnership firm. "The Universal Plate Switch with Indicator". 11th December, 1986.

Class 3. No. 157764. Ellora Art Industries, P.O. Box 2193, Lohar Chawl, Bombay-400 002, Maharashtra State, India, an Indian Partnership firm. "Six Gang Two Way Plate Switch". 11th December, 1986.

Class 3. No. 157765. Ellora Art Industries, P.O. Box 2193, Lohar Chawl, Bombay-400 002, Maharashtra State, India, an Indian Partnership firm. "Three Gang Plate Switch with Universal Socket". 11th December, 1986.

Class 3. No. 157766. Ellora Art Industries, P.O. Box 2193, Lohar Chawl, Bombay-400 002, Maharashtra State, India, an Indian Partnership firm. "Three Pin Plate Switch Socket outlet Combined". 11th December, 1986.

Class 3. No. 157767. Ellora Art Industries, P.O. Box 2193, Lohar Chawl, Bombay-400 002, Maharashtra State, India, an Indian Partnership firm. "Plate shuttered socket outlet three pin". 11th December, 1986.

Class 3. No. 157768. Ellora Art Industries, P.O. Box 2193, Lohar Chawl, Bombay-400 002, Maharashtra State, an Indian Partnership firm. "Three Pin Plate Switch Socket". 11th December, 1986.

Class 3. No. 157853. (Mrs) Vasanti Gopal Apte, Indian National, Proprietress of Apte Flask Manufacturing Company, having her Office at 475/18, Sadar Bazar, Satara 415 001, Maharashtra, India. "Flask". 8th January, 1987.

Class 3. No. 158244. Bluplast Corporation, Hakoba Industrial Estate, 2nd floor, I.B. Patel Road, Goregaon East Bombay-400 063, Maharashtra, India, an Indian Partnership firm. "Tray" 16th April 1987.

Road, Malad, Bombay-400 064, Maharashtra, India, a registered Partnership firm. "Footwear". 6th January, 1987.

Class 10. No. 157848. Industrial & Commercial Traders, having its registered office at Swastik Industries Compound, Chincholi Bunder Road, Off. S.V.

R. A. ACHARYA  
Controller General of Patents, Designs  
and Trade Marks